

CLAIMS

[Claim 1]

A display window protection panel for an electronic apparatus fitted into a display window opening (22) for protecting a portion of a display device (15), which is located under the display window opening (22) in a casing (21) of the electronic apparatus and exposed from the display window opening (22), said protection panel comprising:

a transparent protective plate (4) provided being opposed to a surface of said exposed portion of said display device (15);

a decorating film (7) including a transparent hard coating film (5) and a window forming layer (6) having a decorating portion (2) formed in a thin film state in a portion of one surface of said hard coating film and a part where is not formed with said decorating portion and is formed as a transparent window portion (3) arranged so that the portion exposed from said display window opening of said display device can be viewed; and

a transparent sticking layer (10) for sticking said decorating film (7) to a surface at a side not facing to said display device (15) of said transparent protective plate in a laminated state so that said window forming layer (6) is positioned at a surface side of the

transparent protective plate.

[Claim 2]

The display window protection panel for an electronic apparatus according to claim 1, wherein said decorating portion (2) is provided in a peripheral area of said decorating film (7) as a printed layer, and said transparent window portion (3) is formed in an central portion of said decorating film.

[Claim 3]

The display window protection panel for an electronic apparatus according to claim 1, wherein said decorating film (7) is further provided with a first low reflectance processed layer (12).

[Claim 4]

The display window protection panel for an electronic apparatus according to claim 3, wherein said first low reflectance processed layer (12) is provided to an entire of the other surface of said hard coating film.

[Claim 5]

The display window protection panel for an electronic apparatus according to claim 1, wherein said

transparent protective plate is optical isotropic, and either surface thereof is provided with a polarizing film (9).

[Claim 6]

The display window protection panel for an electronic apparatus according to claim 5, wherein said polarizing film (9) is provided to a surface at a transparent protective plate (4) side not opposing to said display device.

[Claim 7]

The display window protection panel for an electronic apparatus according to claim 5, wherein said transparent protective plate (4) is provided with a second low reflectance processed layer (9) onto a surface at a side opposing to said display device.

[Claim 8]

The display window protection panel for an electronic apparatus according to claim 7, wherein said second low reflectance processed layer (9) is formed of a $\lambda/4$ plate.

[Claim 9]

The display window protection panel for an

electronic apparatus according to any one of claims 1 to 8, wherein the transparent protective plate (4) is constructed of a touch panel (14) including a movable electrode film laminated on said decorating film (7) and a fixed electrode plate stuck to said movable electrode film in the peripheral portion thereof so as to form an air layer between said movable electrode film and the fixed electrode plate.

[Claim 10]

A manufacturing method of display window protection panels for an electronic apparatus fitted into a display window opening (22) for protecting a portion of a display device (15), which is located under the display window opening (22) in a casing (21) of the electronic apparatus and exposed from the display window opening (22), the method comprising:

forming a plurality of decorating areas (26) each including a window forming layer (6) having a decorating portion (2) formed in a portion of one surface of said hard coating film (5) in a thin film state, in which a part not provided with said decorating portion is formed as a transparent window portion (3) which transmits a portion of said display device exposed from said display window opening so as to be viewed, thereby producing a large size decorating film (23);

sticking said large size decorating film (23) to a large size transparent protective plate (24) having an area larger than one of the decorating areas so that said decorating portion is located opposing to a surface of said large size transparent protective plate; and

cutting said stuck large size decorating film (23) and large size transparent protective plate (24) at one time in a position outer than said transparent window portion (3) as well as inner side of the decorating area (26), thereby obtaining protection panels.